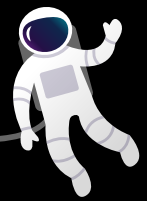
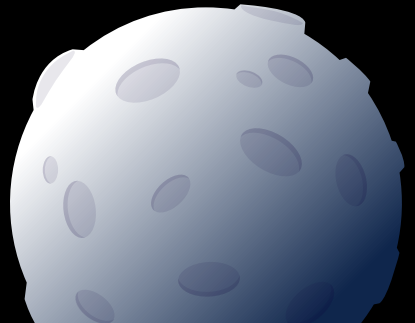
Algoverse

Midterm Presentation





by Logic Legends

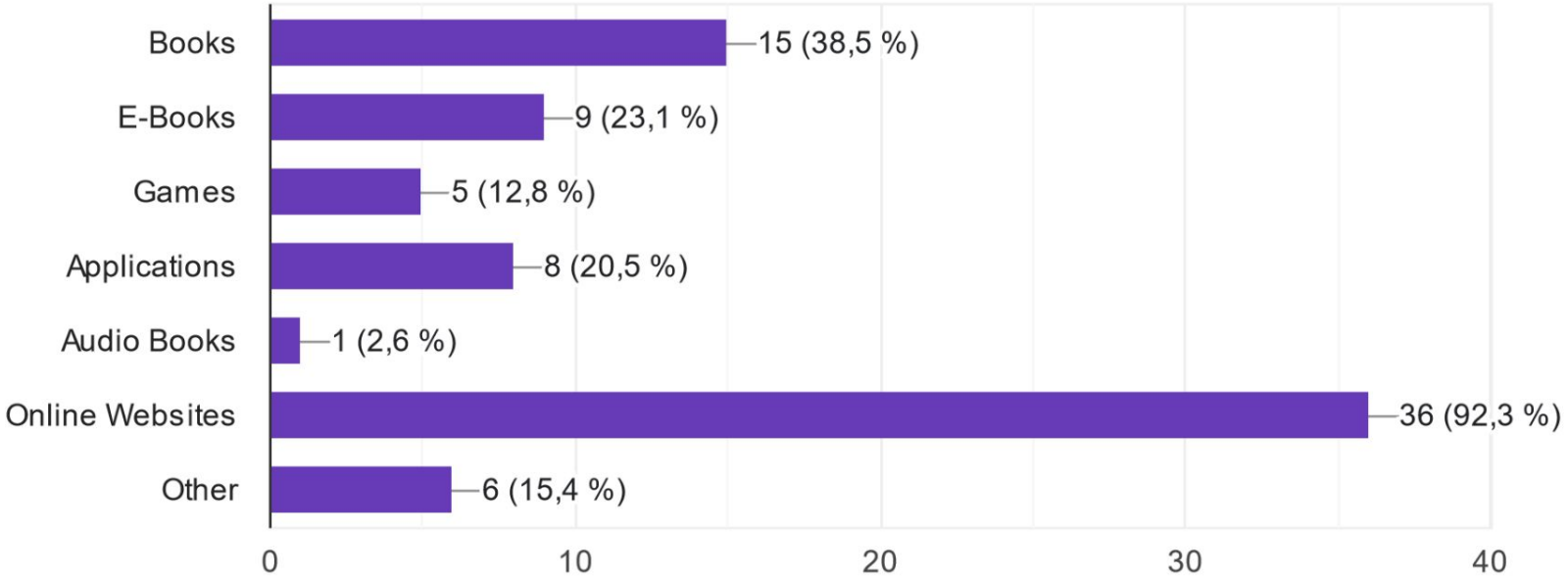
Small Recap

Structure

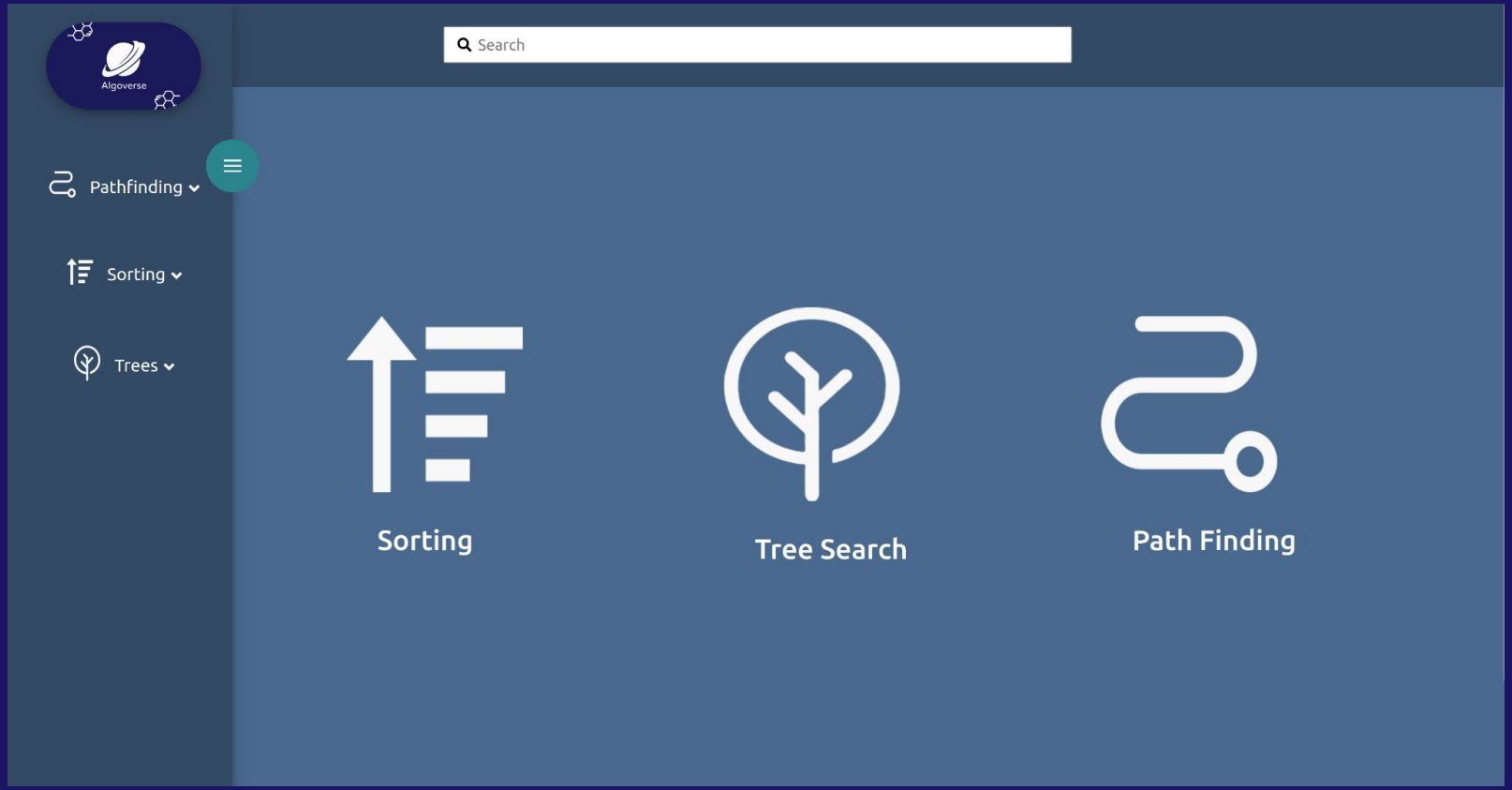
- Project Idea
- Visualization of Dataflow
- Implementation
- Projectmanagement
- Recap Schedule
- Challenges
- Live Demo

What do you go for when trying to learn a new concept?

39 Antworten

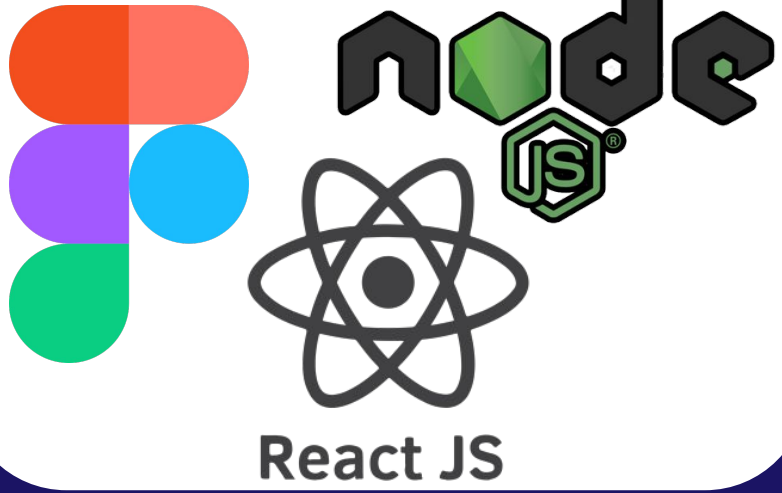


Project Idea



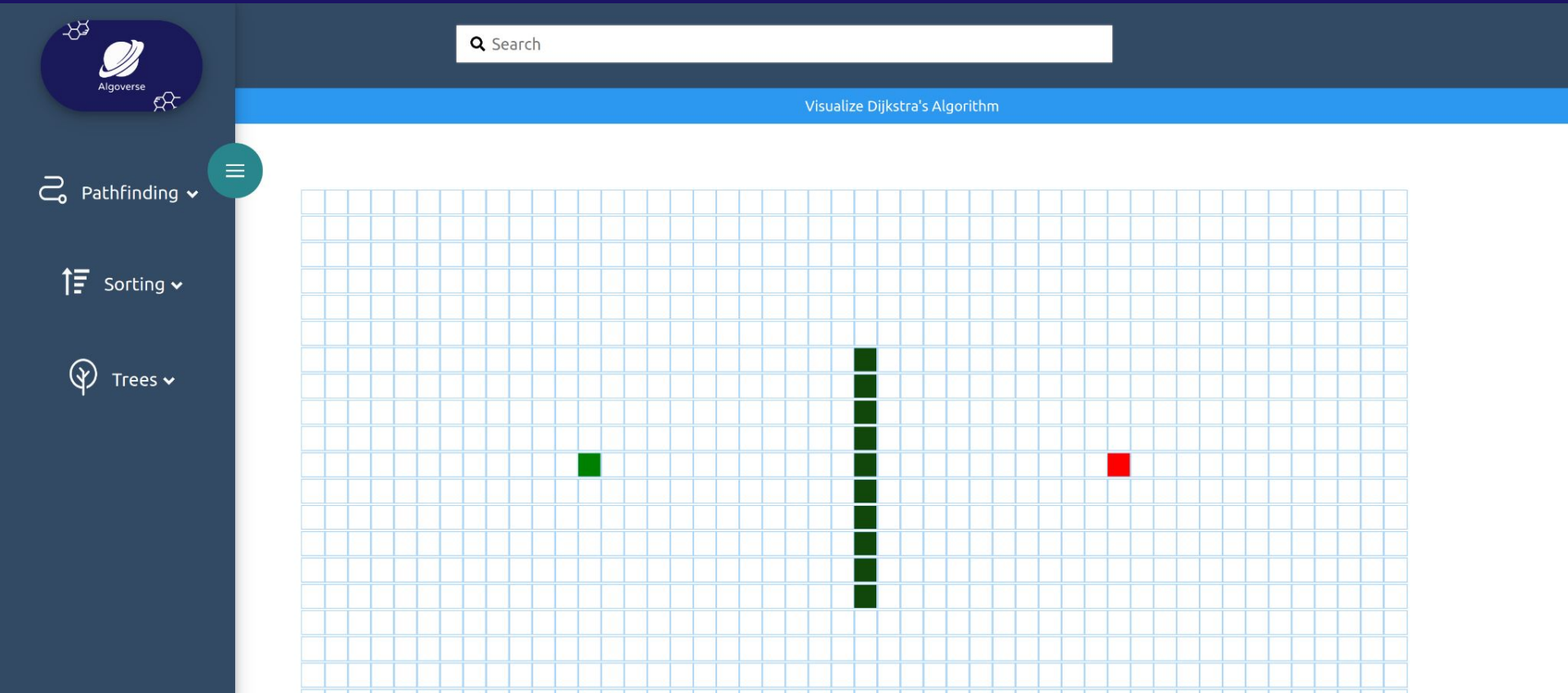
Tech Stack

Frontend



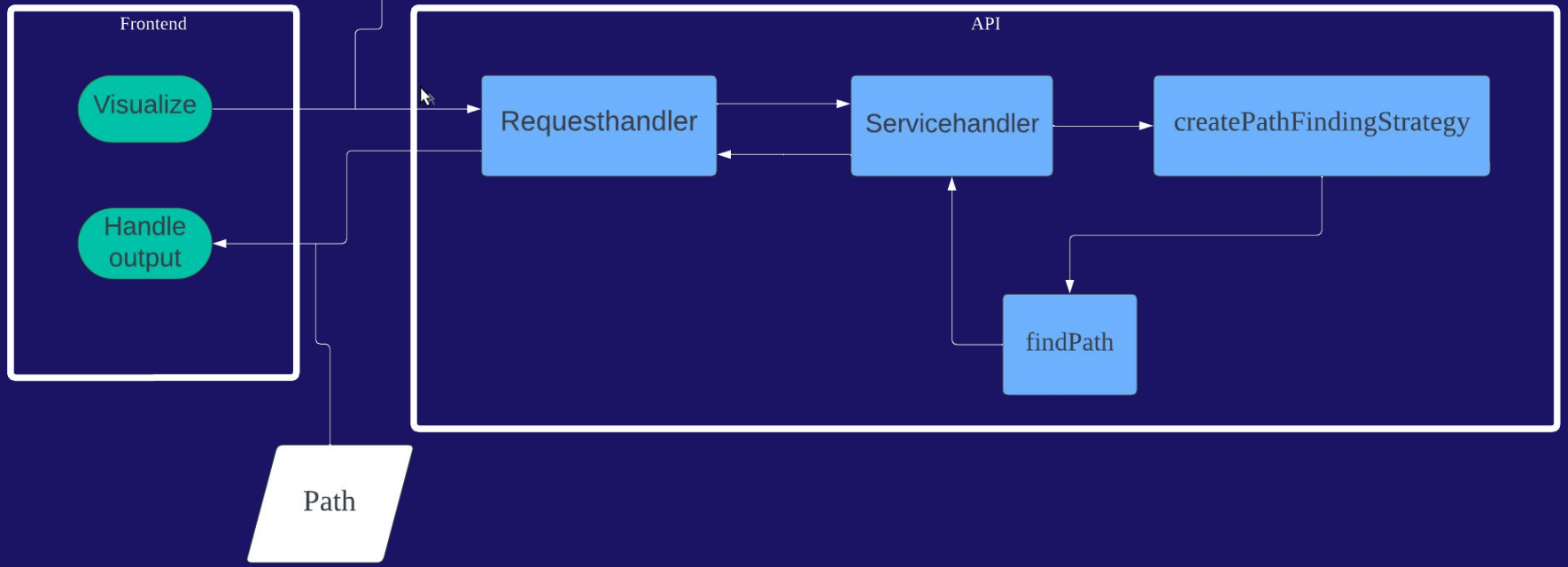
Backend

Data Flow

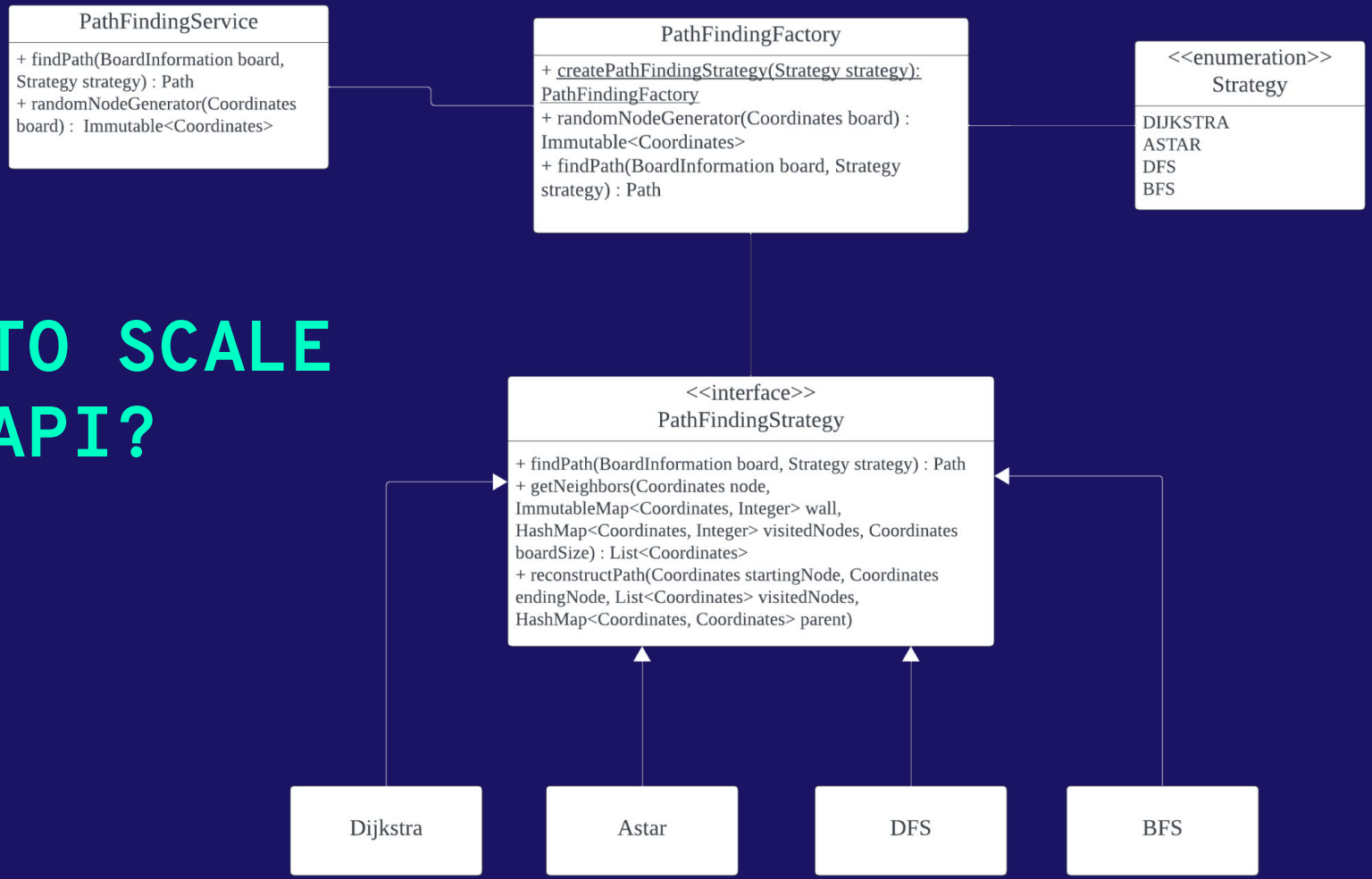

Algoverse
Search
Visualize Dijkstra's Algorithm
Pathfinding
Sorting
Trees

FLOWCHART

localhost:8080/pathfinding/findpath?startpoint=2,2&endpoint=6,6?wall=2,3&wall=3,3&size=10,10&strategy=dijkstra



HOW TO SCALE API?



Projectmanagement

- Jira for Project management
- Scrum and Kanban
- Weekly Meetings on Sunday

Role Assignment

Jarod Umland,
Frontend Developer
Pathfinding

Matt Ruiz,
Frontend Developer
Sorting Algorithms

Shin Yun Seong,
Frontend Developer
Tree Search

Julius Brehme,
Backend Developer
Tests

Reflection of our Deadlines

Week	4	5	6	7	8	9	10	11	12	13	14	15
Frontend	Design and CI		Website Prototype		Visualizing Algorithms		Scaling			Testing and Bugfixing		
Backend	Implementing CI		Data Structures and API			Algorithm Implementation		Automated Tests				

Reflection of our Deadlines

Week	✓	✓	6	7	8	9	10	11	12	13	14	15
Frontend	Design and CI		Website Prototype		Visualizing Algorithms		Scaling			Testing and Bugfixing		
Backend	Implementing CI		Data Structures and API			Algorithm Implementation		Automated Tests				

Reflection of our Deadlines

Week	✓	✓	✓	✓	8	9	10	11	12	13	14	15
Frontend	Design and CI		Website Prototype		Visualizing Algorithms		Scaling			Testing and Bugfixing		
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Reflection of our Deadlines

Week	✓	✓	✓	✓	✗	✗	10	11	12	13	14	15
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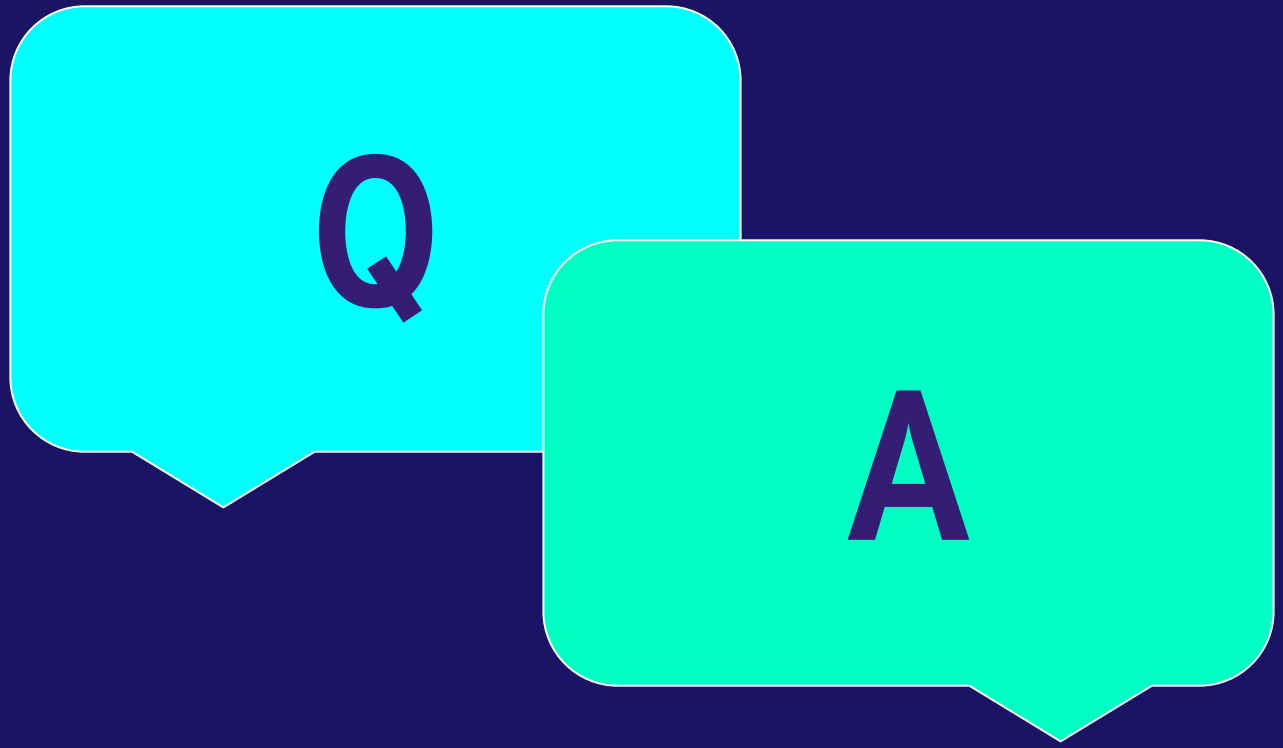
Reflection of our Deadlines

Week	✓	✓	✓	✓	✖	✖	✖	11	12	13	14	15
Frontend	Design and CI		Website Prototype		Visualizing Algorithms Scaling						Tests	
Backend	Implementing CI		Data Structures and API			Algorithm Implementation		Automated Tests				

Challenges and Reevaluation

React	React + Spring
Ease of Deployment	Scalability
Offline Capability	Maintainability
Limited by Browser	Complexity
Resource intensive for Client	Latency

Demo


Q
A